

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of:

Masatake TAMARU

Serial No.: NEW

Filed: October 11, 2001 (herewith)

For: WORK MACHINE MANAGEMENT SYSTEM

**PRELIMINARY AMENDMENT**

Honorable Commissioner  
of Patents and Trademarks  
Washington, D.C. 20231

October 11, 2001

Dear Sir:

Prior to an examination on the merits, please amend the above-identified application as follows:

IN THE ABSTRACT OF THE DISCLOSURE:

Please delete the Abstract of the Disclosure, which appears on page 163 of applicant's specification disclosure. Please add the following Abstract of the Disclosure, which is attached hereto on a separate piece of paper and numbered page "163" for inserting after the claims of the present application:

## -- ABSTRACT OF THE DISCLOSURE

A plurality of work machines is connected by such that reciprocal communications are possible. Each work machine has a work machine information detection device for detecting work machine information. A server is provided with a database that stores data for managing the work machines, and a management information production device for producing management information based on the work machine information and on data stored in the database. A main work machine transmits the transmitted work machine information to the server. The server produces management information, based on the transmitted work machine information and on data stored in the database, and transmits that management information so produced to the main work machine. The main work machine manages the work machines based on the management information so transmitted. --

### IN THE CLAIMS:

Please amend Claims 28 and 29 to read as follows:

-- 28. (Amended) The work machine management system according to claim 25, wherein an anomaly handling apparatus provided on the end where anomaly handling is performed for a construction machine wherein an anomaly has occurred, and said server apparatus are connected by communication means to make reciprocal communications possible;

said server apparatus, when anomaly information has been produced by said server apparatus, transmits and anomaly information to said anomaly handling terminal apparatus through said communication means; and

said anomaly handling terminal apparatus performs anomaly handling for said construction machine at which said anomaly occurred, based on said transmitted anomaly information. --

-- 29. (Amended) The work machined management system according to claim 25, wherein an anomaly handling terminal apparatus provided on the end where anomaly handling is performed for a construction machine at which an anomaly has occurred, and said main work machine are connected by communication means to make reciprocal communications possible;

said main work machine transmits said anomaly information to said anomaly handling terminal apparatus through said communication means; and

said anomaly handling terminal apparatus performs anomaly handling for said construction machine at which said anomaly occurred, based on said transmitted anomaly information. --

#### REMARKS

The claims were amended above to multiple dependent claims. The Abstract of the Disclosure was amended so that it is no more than 150 words in length. Attached hereto is a marked-up version of the changes made to the


claims by the current amendment. The attached pages are captioned

**"VERSION WITH MARKINGS TO SHOW CHANGES MADE."**

Early consideration and allowance of Claims 1-32 are respectfully requested.

In the event any additional fees are due, please charge our Deposit Account No. 22-0256.

Respectfully submitted,  
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(formerly Varndell Legal Group)

  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please amend Claims 28 and 29 were amended as follows:

-- 28. (Amended) The work machine management system according to [any one of claims 25 - 27] claim 25, wherein

an anomaly handling terminal apparatus provided on the end where anomaly handling is performed for a construction machine wherein an anomaly has occurred, and said server apparatus are connected by communication means to make reciprocal communications possible;

said server apparatus, when anomaly information has been produced by said server apparatus, transmits said anomaly information to said anomaly handling terminal apparatus through said communication means; and

said anomaly handling terminal apparatus performs anomaly handling for said construction machine at which said anomaly occurred, based on said transmitted anomaly information. --

-- 29. (Amended) The work machine management system according to [any one of claims 25 - 27] claim 25, wherein

an anomaly handling terminal apparatus provided on the end where anomaly handling is performed for a construction machine at which an anomaly has occurred, and said main work machine are connected by communication means to make reciprocal communications possible;

said main work machine transmits said anomaly information to said anomaly handling terminal apparatus through said communication means; and

said anomaly handling terminal apparatus performs anomaly handling for said construction machine at which said anomaly occurred, based on said transmitted anomaly information. --

[illegible]

## ABSTRACT OF THE DISCLOSURE

A plurality of work machines is connected by such that reciprocal communications are possible. Each work machine has a work machine information detection device for detecting work machine information. A server is provided with a database that stores data for managing the work machines, and a management information production device for producing management information based on the work machine information and on data stored in the database. A main work machine transmits the transmitted work machine information to the server. The server produces management information, based on the transmitted work machine information and on data stored in the database, and transmits that management information so produced to the main work machine. The main work machine manages the work machines based on the management information so transmitted.